

# MCR-SL-D-FIT - Digital display



2864024

<https://www.phoenixcontact.com/us/products/2864024>

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MCR digital display, for measuring and displaying frequencies, pulses and times, 6-fig. display



## Commercial data

Item number	2864024
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C401
Product key	DK1141
GTIN	4017918976477
Weight per piece (including packing)	78.6 g
Weight per piece (excluding packing)	92.6 g
Customs tariff number	90291000
Country of origin	DE

## Technical data

### Product properties

Product type	Digital displays
Configuration	Keyboard

### System properties

#### Functionality

Configuration	Keyboard
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### Electrical properties

#### Supply

Supply voltage range	10 V DC ... 30 V DC
Max. current consumption	max. 40 mA

### Input data

#### Measurement: Frequency

Reset input	Setting function at setting value or zero
Available input sources	NPN/PNP transistor outputs, floating relay contacts
Polarity	Can be programmed jointly for all inputs
Impulse form	Any (Schmitt trigger input), rectangular pulse 1:1 at maximum frequency
Pulse time	min. 5 $\mu$ s
Input frequency	max. 60 kHz (CntDir)
	max. 25 kHz (UpDown / Up.Up/Quad 1/ Quad 2)
	max. 15 kHz ((Quad 4))

#### Signal

Signal level "1" signal	$0.6 \times U_B \dots 30 \text{ V DC}$
Signal level "0" signal	$0 \text{ V DC} \dots 0.2 \times U_B$
Switching level "1" signal	$4 \text{ V DC} \dots 30 \text{ V DC}$
Switching level "0" signal	$0 \text{ V DC} \dots 2 \text{ V DC}$
Input resistance of voltage input	10 k $\Omega$
Measuring rate	$0.1\text{s}^{-1} / 0.5\text{s}^{-1}$

### Output data

#### Switching: Transistor

Maximum switching voltage	30 V DC
Max. switching current	10 mA

#### Signal

Number of positions displayed	6
Display	7-segment LED; 8 mm; red

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## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 16

## Dimensions

Width	48 mm
Height	24 mm
Depth	68 mm

## Material specifications

Housing material	Macrolon 2405
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 (Front)
Ambient temperature (operation)	-20 °C ... 65 °C (10 V DC ... 26 V DC) -20 °C ... 55 °C (> 26 V DC ... 30 V DC)
Ambient temperature (storage/transport)	-25 °C ... 70 °C

## Approvals

### CE

Certificate	CE-compliant
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### UL, USA/Canada

Identification	UL 863
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## EMC data

Noise immunity	EN 61000-6-2 EN 61000-4-2
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### Noise emission

Standards/regulations	EN 55011 / class B
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## Mounting

Mounting type	Panel mount
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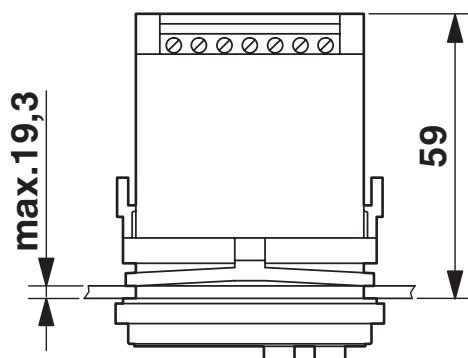
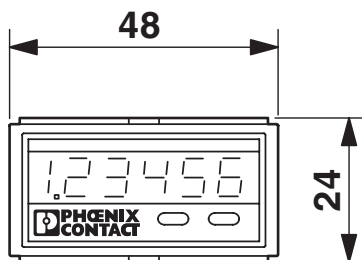
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## Drawings

Dimensional drawing

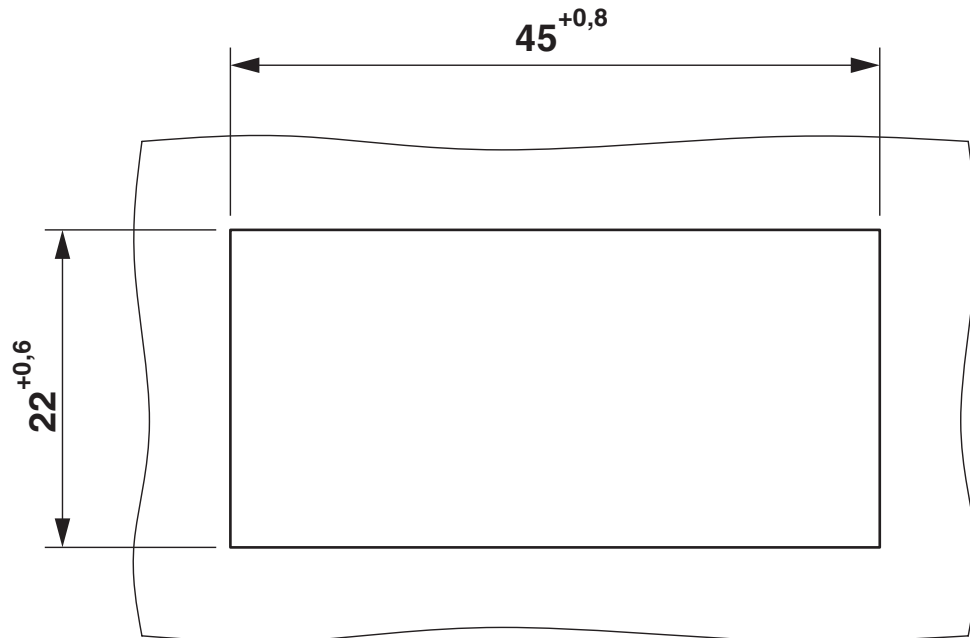


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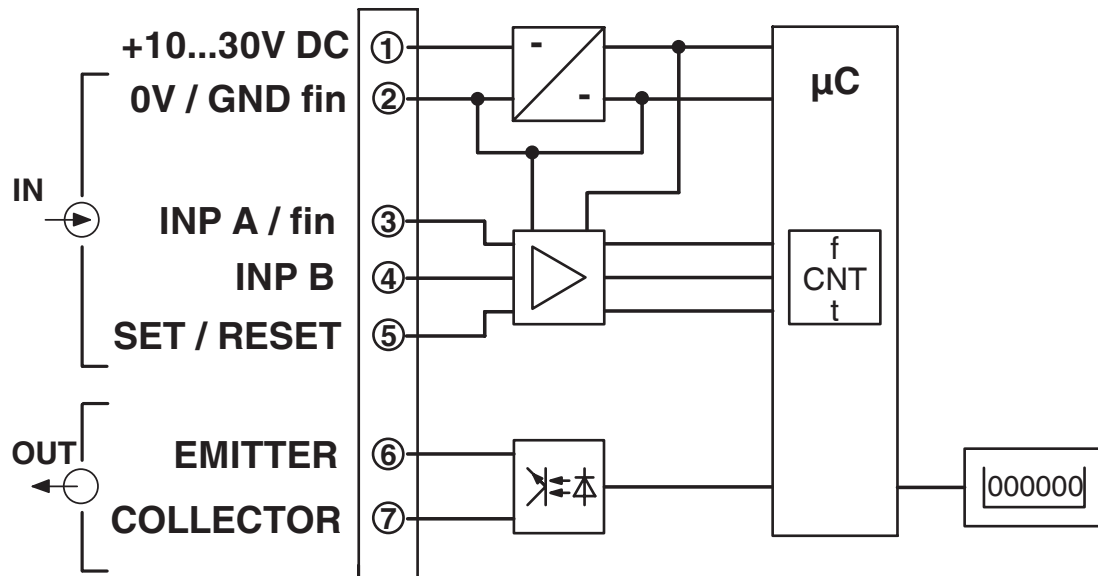
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Dimensional drawing



Circuit diagram



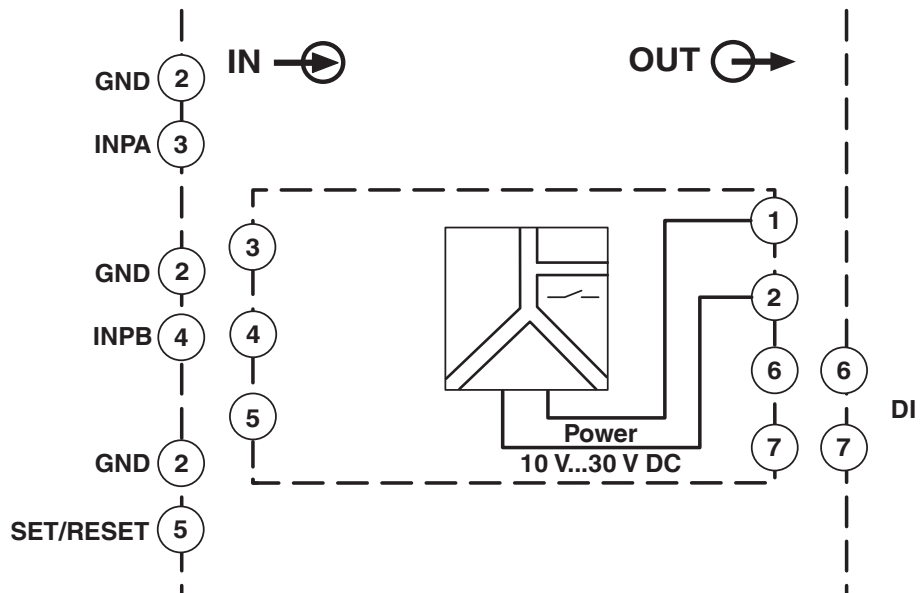
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Block diagram



Block diagram MCR-SL-D-FIT

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2864024>



**cUL Recognized**  
Approval ID: FILE E 197577



**UL Recognized**  
Approval ID: FILE E 197577



**EAC**  
Approval ID: RU\*DE.\*08.B.01522/19

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## Classifications

### ECLASS

ECLASS-13.0	27210301
ECLASS-15.0	27210301

### ETIM

ETIM 10.0	EC011349
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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